Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	150	"control packet" and fault and "operating system" and backup and network	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 12:18
L2	21	"control packet" and (fault with "operating system") and backup and network	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 12:43
L3	639	"control packet" with (fault or error or failure)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 14:04
L4	8166	"packet" with (fault or error or failure) with (signal or indicate or notify)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 12:46
L5	13	"packet" with (fault or error or failure) with (signal or indicate or notify) with "operating system"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 12:46
L6	10	("cable modem termination system" or "CMTS") with ("control packet")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 13:36
L7	1	"control packet" with (fault or error or failure) with "operating system"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 14:05
S1	22	(KHURANA-NEERAJ JEBARA-ALAIN JOFFE-NEIL JOFFE-NEIL-R JOFFE-NEIL-RAYMOND JOFFE-N-R KRISHNAMOORTHI-VENKATRAM). in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 08:33
S2	6	("6880086" "6883170" "6883110"). pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 08:35

		L	1.10	05	Γ	2006/20/44 : : ==
S3	1630	714/4.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 11:53
S4	503	714/4.ccls. and backup	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 09:09
S5	641	714/11.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:18
S6	14	714/11.ccls. and (network adj router)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:18
S7	2	714/11.ccls. and ("cable modem termination system" or "CMTS")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:19
S8	521	714/13.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:20
S9	6	714/13.ccls. and (network adj router)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:20
S10	2	714/13.ccls. and ("cable modem termination system" or "CMTS")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:21
S11	855	714/30.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:22
S12	2	714/30.ccls. and (network adj router)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:22

S13	0	714/30.ccls. and ("cable modem termination system" or "CMTS")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:33
S14	794	714/43.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:34
S15	29	714/43.ccls. and (network adj router)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:34
S16	2	714/43.ccls. and ("cable modem termination system" or "CMTS")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:36
S17	986	714/48.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:34
S18	16	714/48.ccls. and (network adj router)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:34
S19		714/48.ccls. and ("cable modem termination system" or "CMTS")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:41
S20	48	("cable modem termination system" or "CMTS") with (backup)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 13:31
S21	35	"DMA ring"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 14:55
S22	364	(714/4 714/11 714/13 714/30 714/43 714/48).ccls. and @pd>="20060914"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/03 08:39

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S23	6	S22 and (("network router") ("cable modem termination system"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/03 08:39
S24	109	714/4.ccls. and @pd>="20070303"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/08 13:56
S25	36	714/11.ccls. and @pd>="20070303"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/08 13:57
S26	45	714/13.ccls. and @pd>="20070303"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/08 13:58
S27	63	714/30.ccls. and @pd>="20070303"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/08 13:59
S28	64	714/43.ccls. and @pd>="20070303"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/08 14:00
S29	65	714/48.ccls. and @pd>="20070303"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/08 14:00
S30	64	("cable modem termination system" or "CMTS") with (backup)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 14:16
S31	97	714/4.ccls. and @pd>="20070908"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/30 14:07
S32	28	714/11.ccls. and @pd>="20070908"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/30 14:07

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S33	49	714/13.ccls. and @pd>="20070908"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/30 14:26
S34		714/30.ccls. and @pd>="20070908"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/30 14:40
S35	55	714/43.ccls. and @pd>="20070908"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/30 14:57
S36	63	714/48.ccls. and @pd>="20070908"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/30 14:57
S37	359	"control packet" and fault and "operating system"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 14:19
S38	160	"control packet" and fault and "operating system" and backup	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 12:18

Page 5

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L8	585	714/4.ccls.	US-PGPUB	OR	ON	2008/01/31 14:06
L11	174	("cable modem termination system" or "CMTS") and (backup)	US-PGPUB	OR ·	ON	2008/01/31 14:16
L12	177	"control packet" and fault and "operating system"	US-PGPUB	OR	ON	2008/01/31 14:19

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 Web
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(WO/2003/085908) METHOD COMPUTER-READABLE MEDIUM AND SYSTEMS FOR ...

In a **backup cable modem termination system**, a method of restoring transmission of messages between one or more cable modems and the **backup cable modem** ... www.wipo.int/pctdb/en/wo.jsp?WO=2003%2F085908&IA=WO2003%2F085908&DISPLAY=CLAIMS - 26k - <u>Cached</u> - <u>Similar pages</u>

(WO/2004/064371) INCREASING CAPACITY IN A CABLE MODEM TERMINATION ...

The cable modem termination system of claim 33, further comprising at least one switch module connected between the backup cable modem termination system ... www.wipo.int/pctdb/en/wo.jsp?wo=2004064371&IA=WO2004064371&DISPLAY=CLAIMS - 32k - Cached - Similar pages

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File Format: PDF/Adobe Acrobat - <u>View as HTML</u> interface between the **cable modem termination system** and the data network. Phase 2:. Operations Support Systems Interfaces - These are network element ... www.cablelabs.com/specifications/SP-CMCI-I10-050408.pdf - <u>Similar pages</u>

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The method includes detecting an overflow condition at a primary transceiver (120) of the cable modem termination system, determining whether a backup ... www.wipo.org/pctdb/en/wo.jsp?wo=2004064371 - 13k - Cached - Similar pages

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A fault-tolerant system used as a network server is described. engine 16 of the backup operating system. The OS engine 10 then has a state identical to ... www.wipo.int/pctdb/en/wo.jsp?IA=WO1992%2F05487&WO=1992% 2F05487&DISPLAY=DESC - 60k - Cached - Similar pages

Network Performance Monitoring, Fault Detection, Recovery, and ...

fault management [35]. They assume that the network links between client and, servers as well as primary server and backup servers are always on. ... doi.wiley.com/10.1002/0470028696.ch13 - Similar pages

Cranium: An interface for message passing on adaptive packet ...

waiting for the arrival of the control packet, the receiver simply counts the num- ... of packet data that would otherwise back up into the network ... www.springerlink.com/index/p733p31r6230853k.pdf - Similar pages

Patents in Class 710/268

A fault-tolerant RAID system is disclosed. The system includes redundant RAID reducing operating system interrupts by queuing incoming network traffic ... www.freepatentsonline.com/CCL-710-268-p1.html - 76k - Cached - Similar pages

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A NonStop* Kernel Joel F. Bartlett Tandem Computers Inc. Cupertino ... redundant buses, the operating system, processes communicate via fault-tolerant sent as an unsequenced control packet or, piggy-backed on some control ... portal.acm.org/ft_gateway.cfm?id=806587&type=pdf - Similar pages

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Marcel Dischinger, Andreas Haeberlen, Krishna P. Gummadi, Stefan Saroiu October 2007 IMC '07: Proceedings of the 7th ACM SIGCOMM conference on Internet measurement

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Keywords: broadband access networks, cable, dsl, network measurement

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2 DOCSIS performance evaluation: piggybacking versus concatenation Stefen Howard, Jim Martin

March 2005 ACM-SE 43: Proceedings of the 43rd annual Southeast regional conference - Volume 2, Volume 2

Publisher: ACM

Full text available: pdf(609.57 KB) Additional Information: full citation, abstract,

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Demand for high-speed internet access is growing rapidly and new technologies have been developed to supply broadband access to homes and small businesses. One of these technologies, DOCSIS, delivers highspeed internet connections through existing cable ...

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Keywords: DOCSIS, TCP performance, broadband access, cable networks, data over cable

Assessing denial of service vulnerabilities in DOCSIS

Scott Moser, Jim Martin

March 2006 ACM-SE 44: Proceedings of the 44th annual Southeast regional conference

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In previous work a DOCSIS model was added to 'ns' to allow simulations to be run to analyze the performance of DOCSIS. These simulations showed that congestion caused by the asymmetric data paths and the MAC contention process caused several performance ...

Keywords: DOCSIS, TCP performance, broadband access, cable networks, data over cable

4 Network and service management for wide-area electronic commerce networks

Symeon Papavassiliou

March 2001 International Journal of Network Management, Volume 11

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Publisher: John Wiley & Sons, Inc.

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Medium access control with coordinated adaptive sleeping for wireless sensor networks

Wei Ye, John Heidemann, Deborah Estrin

June 2004 IEEE/ACM Transactions on Networking (TON), Volume 12

Issue 3

Publisher: IEEE Press

Additional Information: full citation, abstract,

Full text available: pdf(349.53 KB)

references, cited by, index

This paper proposes S-MAC, a medium access control (MAC) protocol designed for wireless sensor networks. Wireless sensor networks use battery-operated computing and sensing devices. A network of these devices will collaborate for a common application ...

Keywords: energy efficiency, medium access control (MAC), sensor network, wireless network

Realizing the benefits of user-level channel diversity

Evangelos Vergetis, Roch Guérin, Saswati Sarkar

October 2005 ACM SIGCOMM Computer Communication Review, Volume

35 Issue 5

Publisher: ACM

Additional Information: full citation, abstract,

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Channel or path diversity is known to improve performance in physical layer designs, channel access strategies, path switching mechanisms, etc. In this paper, we focus on "user-level" mechanisms that operate simply by distributing packet transmissions ...

Keywords: channel diversity, cross-layer designs, open-loop control, robustness

Defending against distributed denial-of-service attacks with max-min fair server-centric router throttles

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David K. Y. Yau, John C. S. Lui, Feng Liang, Yeung Yam February 2005 IEEE/ACM Transactions on Networking (TON), Volume 13

Publisher: IEEE Press

Full text available: pdf(820.35 KB)

Additional Information: full citation, abstract,

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terms, review

Our work targets a network architecture and accompanying algorithms for countering distributed denial-of-service (DDoS) attacks directed at an Internet server. The basic mechanism is for a server under stress to install a router throttle at selected ...

Keywords: congestion control, distributed denial of service, network security, router throttling

TCP offload through connection handoff

Hyong-youb Kim, Scott Rixner

April 2006 EuroSys '06: Proceedings of the ACM SIGOPS/EuroSys European Conference on Computer Systems 2006

Publisher: ACM

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This paper presents a connection handoff interface between the operating system and the network interface. Using this interface, the operating system can offload a subset of TCP connections in the system to the network interface, while the remaining ...

Keywords: TCP offload, connection handoff, operating system, programmable network interface

5 TCP offload through connection handoff

Hyong-youb Kim, Scott Rixner

October 2006 EuroSys '06: ACM SIGOPS Operating Systems Review, Volume 40 Issue 4

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This paper presents a connection handoff interface between the operating system and the network interface. Using this interface, the operating system can offload a subset of TCP connections in the system to the network interface, while the remaining ...

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6 Multicasting in mobile ad-hoc networks: achieving high packet delivery ratios

Thomas Kunz

October 2003 CASCON '03: Proceedings of the 2003 conference of the

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Publisher: IBM Press

Full text available: pdf(127.94 KB) Additional Information: full citation, abstract, references, cited by, index

Multicasting is intended for group-oriented computing. There are more and more applications where one-to-many or many-to-many dissemination is an essential task. The multicast service is critical in applications characterized by the close collaboration ...

7 Centaurus: an infrastructure for service management in ubiquitous computing environments

Lalana Kagal, Vladimir Korolev, Sasikanth Avancha, Anupam Joshi, Tim Finin, Yelena Yesha

November 2002 Wireless Networks, Volume 8 Issue 6

Publisher: Kluwer Academic Publishers

Additional Information: full citation, abstract,

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In the near future, we will see dramatic changes in computing and networking hardware. A large number of devices (e.g., phones, PDAs, even small household appliances) will become computationally enabled. Micro/nano sensors will be widely embedded in ...

Keywords: mobile computing, pervasive computing, service management, ubiquitous computing

8 Energy-efficient wireless ATM design

Paul J. M. Havinga, Gerard J. M. Smit, Martimus Bos June 2000 Mobile Networks and Applications, Volume 5 Issue 2

Publisher: ACM

Full text available: pdf(137.85 KB) Additional Information: full citation, references, index

Adaptive group multicast with time-driven priority

Mario Baldi, Yoram Ofek, Bülent Yener

February 2000 IEEE/ACM Transactions on Networking (TON), Volume 8

Issue 1 Publisher: IEEE Press

Full text available: pdf(240.68 KB) Additional Information: full citation, references, cited

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Keywords: fairness, multicast, quality of service, real time, ring networks, scheduling, time-driven priority

10 Location-aided routing (LAR) in mobile ad hoc networks

Young-Bae Ko, Nitin H. Vaidya

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